



## **Cosmic Chemistry: Cosmogony**

## **A Spongy Universe**

## STUDENT ACTIVITY

Yo	Your Name						
	When you and your partner have received a sponge from your instructor, complete the activity and answer the questions that follow on this report sheet.						
1.	Sketch what you observe in a cross section of the sponge that is approximately 10 cm <sup>2</sup> in area.						
2.	Write a paragraph that describes the solid portion of the sponge.						
3.	Write a paragraph that describes the "bubbles" or voids in the sponge.						
4.	Write a paragraph that describes how you think the solid portion of the sponge was formed.						



5. Write a p	aragraph that	describes how	you think the "bubble	s" or voids in the spon	ge were formed.
--------------	---------------	---------------	-----------------------	-------------------------	-----------------

6. Have your partner hold the sponge so that you can see the same cross section of the sponge that you sketched in #1 above and move away from you until you can no longer see the "bubbles" or voids in the sponge. Measure this distance between you and your partner and record it below.

7. **Homogeneous** means that matter is evenly distributed in all parts of the sample; whereas, if there are parts of the sample that have distinctly different characteristics, it is **heterogeneous**. Would you describe your the sponge as being homogeneous or heterogeneous? Explain your answer.